

ALBERTA NON-GRID RISK SHARING POOL

JULY 2020 OPERATIONAL REPORT

ACTUARIAL HIGHLIGHTS

Related Bulletin: F2020-058 Alberta RSPs July 2020 Operational Reports

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ACTUARIAL HIGHLIGHTS

RSP ALBERTA NON-GRID

OPERATIONAL REPORT JULY 2020

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1 Summary

Key Points

- (a) The loss ratios currently being used include an initial assessment of the incurred impacts associated with the COVID-19 pandemic, with a further review and assessment to be included with the RSP 2020 Q2 actuarial valuation update (as at June 2020); and
- (b) The month's Current Accident Year recorded and paid activity were both higher than projected; the activity was reviewed, and attributed to the high level of Comprehensive claims activity reported in the month in relation to the June 13, 2020 hailstorm in and around the Calgary area.

1.1 Valuation Schedule (Fiscal Year 2020)

The July 2020 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The following table summarizes the valuation implementations scheduled for fiscal year 2020.

	Alberta Non-Grid Risk Sharing Pool Fiscal Year 2020 – Schedule of Valuations								
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes						
Sep 30, 2019 (completed)	1.46% mfad 25 bp	Oct. 2019	updated valuation (roll forward): accident year 2019 loss ratio <u>de</u> creased 2.6 points to 102.2%; discount rate <u>in</u> creased 3 basis points; no change to selected margins for adverse deviations						
Dec. 31, 2019 (completed)	1.64% mfad 25 bp	Mar. 2020	update valuation: 2019 loss ratio <u>de</u> creased 1.3 points to 100.9%; accident year 2020 loss ratio <u>de</u> creased 7.0 points to 99.7%; discount rate <u>in</u> creased 18 basis points; no change to selected margins for adverse deviations						
Mar. 31, 2020 (completed)	0.63% mfad 25 bp	May. 2020	update valuation (partial roll-forward): accident year 2020 loss ratio <u>de</u> creased 3.6 points to 96.1%; discount rate <u>de</u> creased 101 basis points; no change to selected margins for adverse deviations						
Jun. 30, 2020	% mfad bp	Aug. 2020	update valuation						
Sep 30, 2020	% mfad bp	Oct. 2020	update valuation (roll-forward)						

Under the proposed schedule for fiscal year 2020, the off-half valuation quarters ending March 31, 2020 and September 30, 2020 would not reflect a full valuation update of assumptions, but would rather roll-forward key assumptions from the previous valuation. However, with disruption in the insurance environment from the COVID-19 pandemic, the valuation quarter ending March 31, 2020 includes a partial update of key assumptions to reflect this impact. Other assumptions are rolled-



forward from the previous valuation.

1.2 Appointed Actuary and Hybrid Actuarial Services Model

Mr. Cosimo Pantaleo of Ernst & Young LLP (EY) was appointed as Actuary by the FA Board at its February 18, 2020 meeting.

Facility Association operates under a hybrid model in relation to the management and provision of actuarial services. Under this model, actuarial services are performed by both Facility Association's internal staff and its external actuarial consulting firm. The hybrid model approach maximizes the efficiency of resource allocation while providing access to additional expertise and capacity as needed.

1.3 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation¹

There have been no changes in these descriptions since last month's Highlights.

Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process. Descriptions of some of the more recent (i.e. within the last five years) changes are provided below.

In the **Alberta Treasury Board and Finance Notice 04-2018** (Clarification of Minor Injury Regulation), dated **May 17, 2018**, the Alberta Superintendent of Insurance advised that clarifying amendments have been made to the definition of minor injuries under the Minor Injury Regulation (MIR). With the **most recent** valuation March 31, 2020), reform adjustments related to changes in the definition of minor injuries under the MIR, were included with the updated industry trend analysis (completed using industry data as at June 30, 2019), impacting the selection of ultimates.

1.4 Current Provision Summary

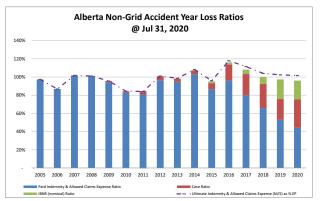
The following charts show the current levels of claim liabilities² booked by accident year³. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2020 full year earned premium (the red hash-mark line) to provide some perspective.

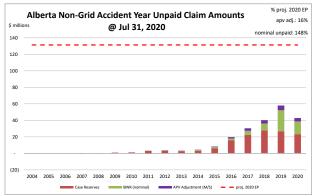
¹This url to a pdf is to a helpful guide on how bills become laws: https://www.ola.org/sites/default/files/common/how-bills-become-law-en.pdf.

²Claim liabilities refer to provision for unpaid indemnity and allowed claims expenses. Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this discussion.

³Accident year 2004 was an incomplete year and therefore has been excluded from the loss ratio chart.







"M/S" refers to "Member Statement" values – that is, actuarial present value adjustments at the selected discount rate.

The current actuarial present value adjustments balance (\$20.7 million – see the following table) represents 16% of the earned premium projected for the full year 2020 (see the upper right corner of the preceding chart on the right). If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial present value adjustments will be released into the net operating result over future periods.

claim	liabi	lities	(\$000s)
-------	-------	--------	----------

M/S total

	amt	%
case	136,947	63.5%
ibnr	57,999	26.9%
M/S apv adjust.	20,657	9.6%
M/S total	215,603	100.0%

The table to the left breaks down the Member Statement (M/S) claim liabilities total into component parts, showing that the majority of the claim liabilities for this RSP is in case reserves. Approximately 70% of the IBNR balance relates to accident years 2019 and 2020 (see Exhibit B). Approximately 89% of the M/S total claim

284.282

100.0%

liabilities are related to accident years 2016-2020 inclusive (i.e. the most recent 5 accident years), and approximately 1% is related to accident years 2010 and prior (i.e. prior to the most recent 10 accident years).

The following tables summarize the premium liabilities and the total policy liabilities.

premium liabilities ((\$000s)		policy liabilities (\$000s)			
	amt	%		amt	%	
unearned prem	64,756	94.3%	claim	194,946	68.6%	
prem def/(dpac)	(1,361)	(2.0%)	premium	63,395	22.3%	
M/S apv adjust.	5,284	7.7%	M/S apv adjust.	25,941	9.1%	

M/S total

100.0%

2 Activity During the Month of June 2020

68.679

2.1 Recorded Premium and Claims Activity

The following table summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month's Operational Report⁴.

⁴There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.



2020

TOTAL

10,579

10.403

	The error I tell Great The Internation of Treference Summary, The error I mediately (4 the distincts)								
	Table 01	Favorad Duamaissa		Paid Indemnity &		Case increase /		Recorded increase /	
		Earned Premium		Allowed Claims Expense		(decrease)		(decrease)	
	Accident	A ctual	Actual less	A atual	Actual less	A atual	Actual less	Actual	Actual less
	Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
	Prior	(1)	(1)	781	(1,222)	(322)	1,147	459	(75)
	2018	(72)	(72)	910	20	(552)	148	358	168
	2019	(103)	(103)	788	(167)	(616)	83	172	(84)

2,156

787

Alberta Non-Grid RSP Actual vs Projected Summary: Recorded Transaction Amounts (\$ thousands)

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

3,990

5.368

13,474

14.463

6,146

6.155

115

(1.375)

Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation). Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of the variance. Commentary from our review is provided in the sub-sections that follow.

2.1.a Actual vs. Projected (AvsP): Earned Premium

(463)

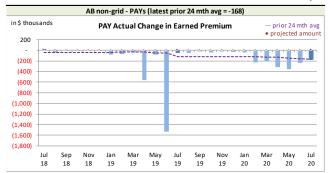
(639)

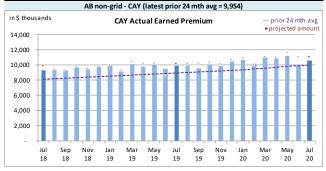
13,359

15,838

The following charts show actual **earned premium**⁵ activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

Alberta non-Grid RSP Actual Earned Premium by Calendar Month





Earned premium changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year.

On Latest \$ thousands							
Earned Premium	PAYs	CAY					
Mthly Avg EP Chg (prior 24 mths)	(168)	9,954					
std dev	323	557					
A-P <> std dev	6	3					
% <> std dev	24.0%	12.0%					
norm <> std dev	31.7%	31.7%					
performance vs 24-mth avg:	better	better					

The associated variance between the actual changes and the projections from the previous month are shown in the following charts. **Earned premium** change projections are all attributed to the current accident year as the projection upload does not accept **earned premium** changes for other accident years. We do not see this limitation as being significant for our purposes, but it does mean that

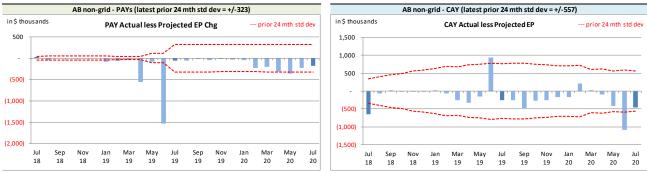
the actual less projection variance will equal the actual earned premium change in relation to prior

⁵Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



accident years.

Alberta non-Grid RSP Actual vs. Projected Summary: Earned Premium Variances by Calendar Month

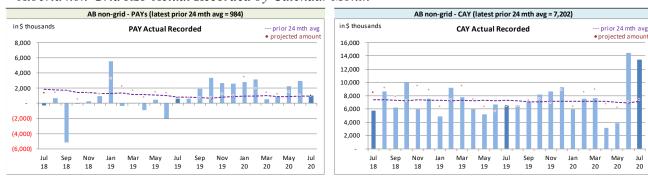


We project **earned premium** changes from known unearned premium and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁶, with actuals generally lower than projected, although the magnitude is not high relative to monthly premium. In addition to the PAYs' bias, the CAY has also shown bias⁷, with actuals being generally lower than projected, and while we modified our projections processes in response, bias still exists. Over time, we may consider other projection approaches to address the bias issue, but it is not currently deemed as priority.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

The following charts show actual **recorded** activity (**paid** and case reserve changes), in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

Alberta non-Grid RSP Actual Recorded by Calendar Month



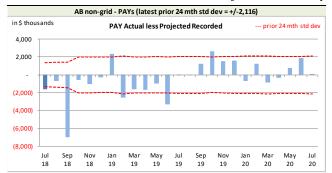
Recorded activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

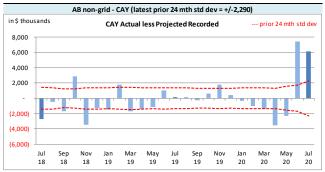
⁶The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

⁷We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (25 in this case) and 50% probability of success. The rolling 25-month CAY variances at July 2020 had only 5 months where the actuals was higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.



Alberta non-Grid RSP Actual vs Projected Summary: Recorded Variances by Calendar Month





On Latest \$ thousands							
Recorded	PAYs	CAY					
Mthly Avg Recorded (prior 24 mths)	984	7,202					
std dev	2,116	2,290					
A-P <> std dev	6	14					
% <> std dev	24.0%	56.0%					
norm <> std dev	31.7%	31.7%					
performance vs 24-mth avg:	better	worse					

With respect to **recorded** indemnity & allowed claims expense activity, 24% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see table on left), suggesting the projection process has performed better than simply projecting the prior 24-month average amount (assuming it follows a

normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (9 of 25 variances are positive).

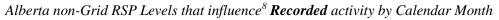
The current accident year (CAY) **recorded** variances fell outside of one standard deviation 56% of the time over the last 25 calendar months (see the preceding table on the left), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (10 of 25 variances are positive).

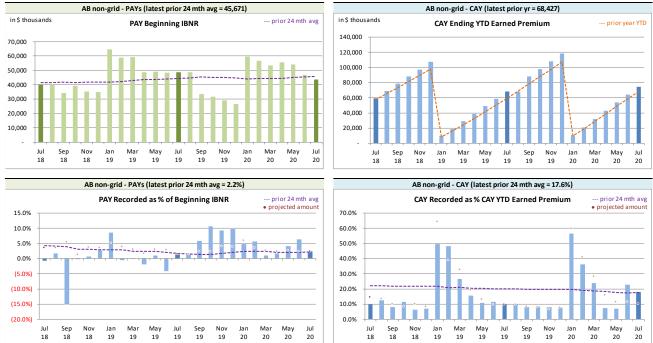
The CAY **recorded** variance was outside of the one standard deviation band this month (see preceding chart on the right). The significantly higher than projected recorded activity was reviewed, and the high level of Comprehensive recorded claims activity reported in the month was attributed to delayed claims reporting in relation to the June 13, 2020 hailstorm in and around the Calgary area.

The method for establishing IBNR adjusts automatically for changes in **earned premium** and **recorded** claims activity level (see sections 2.2 and 3).

We have included, for reference, the following charts related to levels influencing **recorded** activity.







We track PAY beginning IBNR as **recorded** activity comes out of IBNR. Changes in the PAY beginning IBNR (see upper left of the preceding group of charts) occur for several possible reasons:

- to offset actual recorded activity (through loss ratio matching);
- the annual switchover as a CAY becomes a PAY(occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs' ultimates (will show up as a beginning IBNR change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

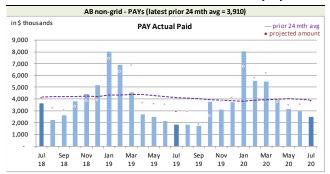
2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

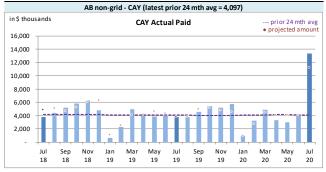
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

⁸Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned premium), deriving year-to-date recorded as selected ultimate less IBNR. In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.



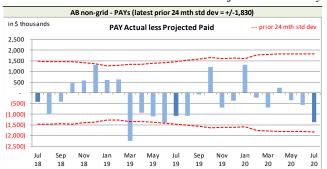
Alberta non-Grid RSP Actual Paid activity by Calendar Month

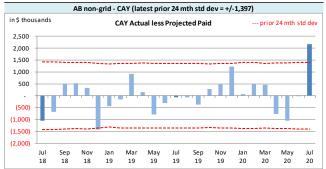




Paid activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

Alberta non-Grid RSP Actual vs Projected Summary: Paid Variances by Calendar Month





On Latest \$ thousands						
Paid	PAYs	CAY				
Mthly Avg Paid (prior 24 mths)	3,910	4,097				
std dev	1,830	1,397				
A-P <> std dev	1	2				
% <> std dev	4.0%	8.0%				
norm <> std dev	31.7%	31.7%				
performance vs 24-mth avg:	better	better				

With respect to **paid** indemnity & allowed claims expense, 4% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see table on left), suggesting the projection process has performed better than simply projecting the prior 24-month average amount (assuming it follows a normal distribution). Bias

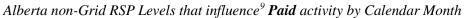
has not been indicated at a 95% confidence level on a lagging 24-month basis (8 of 25 variances are positive).

The current accident year (CAY) **paid** variances fell outside of one standard deviation 8% of the time over the last 25 calendar months (see the preceding table), suggesting the projection process has performed better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (12 of 25 variances are positive).

The CAY **paid** variance was outside of the one standard deviation band this month (see preceding chart on the right) the higher than projected paid activity was reviewed, and attributed to the high level of Comprehensive paid claims activity in the month in relation to the June 13, 2020 hailstorm in and around the Calgary area.

We have included, for reference, the following charts related to levels influencing **paid** activity.







We track the PAY beginning unpaid balance (case and IBNR) as **paid** activity comes out of the unpaid balance. Changes in the PAY beginning unpaid balance (see upper left of the preceding group of charts) occur for several possible reasons:

- to offset actual **paid** activity (may reduce case or IBNR or both);
- the annual switchover as a CAY becomes a PAY (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs' ultimates (will show up as a beginning unpaid balance change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

2.2 Actuarial Provisions

An ultimate loss ratio matching method (described in section 3) is used to determine the month's IBNR¹⁰, and factors are applied to the nominal unpaid claims liability (case plus IBNR) to determine the discount amount (shown as a negative value to indicate its impact of reducing the liability) and the Provisions for Adverse Deviations. The loss ratios and the factors used to determine the projections and actuals were based on the applicable valuation.

The following table summarizes variances in provisions included in this month's Operational Report

⁹Our paid projections for the prior accident years are based on selected ratios of paid to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date paid to year-to-date selected ultimate indemnity (i.e. selected LR x earned premium). In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.

¹⁰For ease of discussion, "IBNR" is used in place of "provisions for incurred but not recorded (IBNR) and development".



and the associated one-month projections from last month's Report.

Alberta Non-Grid RSP Actual vs Projected Summary: IBNR and APV Amounts (\$ thousands)

Table 02			actuarial present value adjustments					
	IDI	ND	Discount America		Provisions for Adverse		IBNR + actuarial present	
	IBNR		Discount Amount		Deviations		value adjustments	
Accident	A ctual	Actual less	A stud	Actual less	A etual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected		Projected
Prior	9,025	75	(1,112)	(19)	7,788	137	15,701	193
2018	8,215	(240)	(578)	1	4,658	(12)	12,295	(251)
2019	25,325	(17)	(887)	(1)	6,723	9	31,161	(9)
2020	15,434	(6,591)	(658)	44	4,723	(318)	19,499	(6,865)
TOTAL	57,999	(6,773)	(3,235)	25	23,892	(184)	78,656	(6,932)

The IBNR provision is \$6.8 million lower than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1.

Exhibit G shows the accident year IBNR amount change from last month to this month broken down into:

- (i) the change projected last month;
- (ii) the additional change due to variances in earned premium (because we apply a loss ratio to earned premium in determining ultimate level) and/or recorded claims (as IBNR is calculated as ultimate less recorded) differences; and
- (iii) the additional change due to valuation implementation impacts (as applicable)

The variances associated with (ii) above are discussed in sections 2.1.a and 2.1.b.

The following table summarizes the variances in the provisions for premium deficiency liability / (deferred policy acquisition cost asset) included in this month's Operational Report and the one-month projections from last month's Report. This RSP is in a premium deficiency position (shown as a positive amount) prior to and after actuarial present value adjustments. Actuarial present value adjustments increase the liability value as the adjustments increase the expected future policy obligations (costs) associated with the unearned premium. The variances noted are mainly driven by the unearned premium variance.

Alberta Non-Grid RSP Actual vs Projected Summary: Premium Deficiency / (DPAC) Amounts (\$ thousands)

Table 03	Premium Deficiency / (Deferred Policy Acquisition Costs)		actuarial present value adjustments		Premium Deficiency / (DPAC) including actuarial present value adjustments	
	Actual	Actual less	Actual	Actual less	Actual	Actual less
	7.000.0.	Projected	, 1000.01	Projected	, 1000.01	Projected
balance:	(1,361)	8	5,284	(38)	3,923	(30)
balance as % unearned premium:	(2.1%)	-	8.2%	-	6.1%	-

actual unearned premium: 64,756 less projected: (445)



3 Ultimate Loss Ratio Matching Method

An "ultimate loss ratio matching method" continues to be applied to the current month and two projected months shown in the Operational Reports, with IBNR determined by accident year as follows:

- (a) Earned premium to-date
- (b) Ultimate loss¹¹ ratio per latest valuation
- (c) Estimated ultimate incurred = (a) x (b)
- (d) Recorded indemnity & allowed claims expense to-date
- (e) IBNR = (c) (d)

4 Calendar Year-to-Date Results

The following table summarizes the calendar year-to-date results for indemnity & allowed claims expenses 12, including IBNR.

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes earned premium associated with the current accident year but also earned premium adjustments related to prior accident years. Specifically, the current accident year (CAY) ratio in the table is 98.2% rather than 96.1% (the valuation ultimate ratio for accident year 2020), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the Alberta Non-Grid RSP Summary of Operations due to rounding.)

Alberta Non-Grid RSP Calendar Year-to-Date Indemnity & Allowed Claims Expense Summary (\$ thousands)

Table 04	YTD Nominal Values		YTD actuarial present value adjustment		YTD Total		Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(3,434)	(4.7%)	1,285	1.8%	(2,149)	(2.9%)	(462)	(0.2%)
CAY	71,531	98.2%	4,065	5.6%	75,596	103.7%	9,831	(1.6%)
TOTAL	68,097	93.4%	5,350	7.3%	73,447	100.8%	9,369	(1.8%)

("% EP" based on 2020 calendar year-to-date earned premium; ratios may not total due to rounding)

In general, prior accident years (PAYs) changes from last month are due to the release of the actuarial present value adjustments with claims payments, except when valuations are implemented. The loss ratio change year-to-date in Table 04 reflects not only changes in the prior accident year levels, but also the increase in the calendar year-to-date earned premium with an additional month's earned premium.

For the current accident year (CAY), changes in the year-to-date total reflects the additional month's exposure and regular changes to actuarial present value adjustments as the year ages.

¹¹"Loss" here refers to indemnity and allowed claims expenses, but does not include the claims expense allowance included in member company overall expense allowances ("Expense Allowance" in the Operational Report).

¹²Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this analysis.



5 Current Operational Report – Additional Exhibits

Section 6 provides exhibits pertaining to the actuarial provisions reflected in the current month's Operational Report.

IBNR (including actuarial present value adjustments) presented in section 6, Exhibit A, were derived on a discounted basis, and therefore reflect the time value of money and include an explicit provision for adverse deviations in accordance with accepted actuarial practice in Canada.

IBNR presented in section 6, Exhibit B, does NOT include any actuarial present value adjustments. The "Total IBNR" from this exhibit is shown in the Operational Report as "Undiscounted IBNR".

The ultimate loss ratios detailed in section 6, Exhibit B, refer to the estimates derived on the basis of various actuarial methodologies applied to the experience of the Alberta Non-Grid Risk Sharing Pool for the purposes of the most recent quarterly valuation. As discussed in section 3, IBNR reflected in the current month's Operational Report was derived as the difference between the estimated ultimate for the claims amount (i.e. earned premium x ultimate loss ratio) and the associated current recorded amounts (life-to-date payments plus current case reserves).

6 EXHIBITS

The exhibits listed below are provided on the pages that follow:

EXHIBIT A IBNR for Member Sharing – includes Actuarial Present Value Adjustments

EXHIBIT B IBNR

EXHIBIT C Premium Liabilities

EXHIBIT D Projected Year-end Policy Liabilities

EXHIBIT E Discount Rate & Margins for Adverse Deviations

EXHIBIT F Interest Rate Sensitivity

EXHIBIT G Components of IBNR Change During Month



$\label{eq:exhibit} EXHIBIT\,A$ $IBNR\ for\ Member\ Sharing-includes\ Actuarial\ Present\ Value\ Adjustments$

TABLE EXHIBIT A	Amounts in \$000s							
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected		
value adjustments	Year	Jun. 2020	Jul. 2020	Aug. 2020	Sep. 2020	Dec. 2020		
	2004	42	42	42	41	36		
	2005	13	13	13	13	12		
	2006	1	1	1	1	1		
	2007	17	18	18	17	15		
	2008	67	68	67	65	59		
	2009	50	58	56	55	49		
	2010	72	118	116	114	102		
	2011	(328)	(328)	(328)	(320)	(289)		
	2012	201	182	178	175	155		
	2013	449	418	410	400	359		
	2014	1,213	1,207	1,190	1,162	1,043		
discount rate	2015	2,378	2,351	2,318	2,264	2,032		
0.63%	2016	3,720	3,733	3,567	3,393	3,021		
	2017	8,343	7,820	7,591	7,184	6,570		
interest rate margin	2018	12,837	12,295	11,832	11,434	10,485		
25 basis pts	2019	31,533	31,161	30,801	30,257	28,571		
	2020	23,142	19,499	20,827	22,253	43,683		
	TOTAL	83,750	78,656	78,699	78,508	95,904		
	Change	_	(5,094)	43	(191)			

Please see Exhibit G, page 1 for Components of Change during Current Month



EXHIBIT B

IBNR

			IBINK				
TABLE EXHIBIT B	Amounts in \$000s						
IBNR	Ultimate Loss Ratio	Accident Year	Actual Jun. 2020	Actual Jul. 2020	Projected Aug. 2020	Projected Sep. 2020	Projected Dec. 2020
	349.1%	2004	36	36	36	35	31
	97.4%	2005	5	5	5	5	5
	86.9%	2006	1	1	1	1	1
	101.8%	2007	(11)	(10)	(10)	(10)	(9)
	101.1%	2008	64	65	64	62	56
	95.6%	2009	(28)	(21)	(21)	(20)	(18)
	84.3%	2010	(27)	19	19	19	17
	83.9%	2011	(550)	(550)	(544)	(531)	(477)
	100.7%	2012	(93)	(111)	(110)	(107)	(96)
	98.3%	2013	187	156	154	150	135
	107.8%	2014	862	856	847	827	744
	95.2%	2015	1,724	1,705	1,688	1,647	1,481
	116.1%	2016	2,103	2,137	1,996	1,858	1,613
	108.3%	2017	5,211	4,737	4,543	4,193	3,789
	100.1%	2018	8,645	8,215	7,804	7,492	6,809
	97.4%	2019	25,598	25,325	25,046	24,595	23,170
	96.1%	2020	18,741	15,434	16,251	17,225	35,768
		TOTAL	62,468	57,999	57,769	57,441	73,019
		Change		(4,469)	(230)	(328)	

Please see Exhibit G, page 2 for Components of Change during Current Month



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C		Amount	ts in \$000s		
	Actual	Actual	Projected	Projected	Projected
Premium Liabilities	Jun. 2020	Jul. 2020	Aug. 2020	Sep. 2020	Dec. 2020
(1) unearned premium (UP)	66,622	64,756	66,240	72,693	81,580
FOR MEMBER SHARING					
(2) expected future costs ratio {% of (1)}	105.7%	106.1%	106.5%	107.1%	108.9%
(3) expected future costs {(1) x (2)}	70,422	68,679	70,567	77,835	88,807
(4) premium deficiency / (deferred policy					
acquisition cost)	3,800	3,923	4,327	5,142	7,227
Excluding Actuarial Present Value Adjustments					
(5) expected future costs ratio {% of (1)}	97.6%	97.9%	98.3%	98.8%	100.5%
(6) expected future costs {(1) x (5)}	65,002	63,395	65,134	71,845	81,972
(7) premium deficiency / (deferred policy					
acquisition cost)	(1,620)	(1,361)	(1,106)	(848)	392



EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2020, broken down by component.

Alberta non-Grid	Projected Balances as at Dec. 31, 2020 (\$000s)									
ending 2020	nominal values				actuarial present value adjustments (apvs)					
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL
2004	23	31	54	-	-	5	-	5	5	59
2005	63	5	68	-	-	7	-	7	7	75
2006	1	1	2	-	-	-	-	-	-	2
2007	259	(9)	250	(2)	1	25	-	25	24	274
2008	(31)	56	25	-	-	3	-	3	3	28
2009	749	(18)	731	(8)	3	73	(1)	72	67	798
2010	907	17	924	(11)	5	92	(1)	91	85	1,009
2011	2,560	(477)	2,083	(29)	12	208	(3)	205	188	2,271
2012	2,861	(96)	2,765	(39)	17	277	(4)	273	251	3,016
2013	2,333	135	2,468	(35)	15	247	(3)	244	224	2,692
2014	2,690	744	3,434	(62)	24	343	(6)	337	299	3,733
2015	4,993	1,481	6,474	(129)	52	641	(13)	628	551	7,025
2016	14,326	1,613	15,939	(271)	112	1,594	(27)	1,567	1,408	17,347
2017	20,816	3,789	24,605	(394)	148	3,076	(49)	3,027	2,781	27,386
2018	25,729	6,809	32,538	(521)	195	4,067	(65)	4,002	3,676	36,214
2019	25,093	23,170	48,263	(820)	338	5,985	(102)	5,883	5,401	53,664
PAYs (sub-total):	103,372	37,251	140,623	(2,321)	922	16,643	(274)	16,369	14,970	155,593
CAY (2020)	39,601	35,768	75,369	(1,281)	528	8,818	(150)	8,668	7,915	83,284
claims liabilities:	142,973	73,019	215,992	(3,602)	1,450	25,461	(424)	25,037	22,885	238,877
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	81,580	392	81,972	(1,061)	408	7,587	(99)	7,488	6,835	88,807
						*	Total may not be s	um of parts, as ap	ovs apply to future	costs within UPR
policy liabilities:			297,964	(4,663)	1,858	33,048	(523)	32,525	29,720	327,684



EXHIBIT E

Discount Rate & Margins for Adverse Deviations

The tables below present selected margins for adverse development by coverage (the total is a weighted average, based on the unpaid claims projection for December 31, 2020 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs (Mar. 31, 2020)

Accident	Third Party	Accident	Other	Tatal
Year	Liability	Benefits	Coverages	Total
	Margins	Margins	Margins	Margins
2004	10.0%	10.0%	10.0%	10.0%
2005	10.0%	10.0%	10.0%	10.0%
2006	9.9%	10.0%	10.0%	9.9%
2007	10.0%	10.0%	10.0%	10.0%
2008	10.0%	10.0%	10.0%	10.0%
2009	10.0%	10.0%	10.0%	10.0%
2010	10.0%	10.0%	10.0%	10.0%
2011	10.0%	10.0%	10.0%	10.0%
2012	10.0%	10.0%	9.3%	10.0%
2013	10.0%	10.0%	10.0%	10.0%
2014	10.0%	10.0%	9.2%	10.0%
2015	10.0%	10.0%	10.0%	9.9%
2016	10.0%	10.0%	10.0%	10.0%
2017	12.5%	10.0%	12.5%	12.5%
2018	12.5%	10.0%	11.5%	12.5%
2019	12.4%	10.0%	7.7%	12.4%
2020	12.2%	10.0%	12.5%	11.7%
2021	11.9%	10.0%	5.2%	9.3%
prem liab	11.9%	10.0%	5.2%	9.3%

discount rate: 0.63%

margin (basis points): 25



EXHIBIT F

Interest Rate Sensitivity

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2020 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2020, and are based on more up-to-date information). We have included the most recent valuation selection (0.63%), the prior valuation assumption (1.64%) and the prior fiscal year end valuation assumption (1.46%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

	Actual	iai Present va	lue of Provision	ons at Various	Discount Rate	s - Dec. 31, 20	20 projected l	Inpaid
AY	0.00%	0.13%	0.63%	1.13%	1.63%	2.13%	1.64%	1.46%
2004	-	-	-	-	-	-	-	-
005	-		-	-	-			-
006	1	1	1	1	1	1	1	1
007	247	247	246	244	243	241	243	243
800	_	-	-	-	-	-	-	-
009	694	694	689	683	677	671	677	679
010	915	915	908	900	892	884	892	894
11	2,019	2,018	2,001	1,979	1,958	1,937	1,957	1,965
)12	2,726	2,725	2,701	2,672	2,643	2,615	2,643	2,653
13	2,763	2,762	2,738	2,708	2,679	2,651	2,679	2,689
14	4,502	4,500	4,451	4,389	4,329	4,270	4,327	4,349
15	6,202	6,200	6,121	6,023	5,927	5,834	5,924	5,959
16	15,301	15,297	15,134	14,933	14,737	14,547	14,733	14,803
17	23,692	23,684	23,443	23,148	22,860	22,579	22,852	22,957
18	34,773	34,761	34,409	33,977	33,555	33,143	33,542	33,696
19	52,418	52,395	51,837	51,148	50,474	49,822	50,460	50,704
120	85,401	85,366	84,460	83,339	82,245	81,187	82.222	82,618
tal	231,654	231,565	229,139	226,144	223,220	220,382	223,152	224,210
lai	curr - 100 bp	curr - 50 bp	curr val					prior fyr en
	curr - 100 bp	curr - 50 bp		curr + 50bp	curr + 100bp	curr + 150bp	prior val	}' '
		1	assumption	}			assumption	assumption
			Dollar Imr	act Relative t	o Valuation As	cumption		
		.)						,
,	0.00%	n 13% i	0.63%	1113%	1 63%	7 13%	164%	1 1 46%
_	0.00%	0.13% 2.426	0.63%	1.13%	1.63%	2.13%	1.64%	;
	2,515	2,426	-	(2,995)	(5,919)	(8,757)	(5,987)	1.46% (4,929
			- curr val	(2,995) curr + 50bp		(8,757)	(5,987) prior val	(4,929 prior fyr end
	2,515	2,426	-	(2,995) curr + 50bp	(5,919)	(8,757)	(5,987)	(4,929
_	2,515	2,426	curr val assumption	(2,995) curr + 50bp	(5,919) curr + 100bp	(8,757) curr + 150bp	(5,987) prior val	(4,929 prior fyr en
al	2,515	2,426	curr val assumption Percentage I	(2,995) curr + 50bp	(5,919)	(8,757) curr + 150bp	(5,987) prior val	(4,929 prior fyr en assumption
tal Y	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption	(2,995) curr + 50bp mpact Relativ	(5,919) curr + 100bp e to Valuation	(8,757) curr + 150bp Assumption	(5,987) prior val assumption	(4,929 prior fyr en assumptior
Y 04	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ	(5,919) curr + 100bp e to Valuation	(8,757) curr + 150bp Assumption	(5,987) prior val assumption	(4,929 prior fyr en assumptior
Y 04 05	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ	(5,919) curr + 100bp e to Valuation	(8,757) curr + 150bp Assumption	(5,987) prior val assumption	(4,929 prior fyr en assumptior
Y 04 05 06 06	2,515 curr - 100 bp	2,426 curr - 50 bp 0.13%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13%	(5,919) curr + 100bp e to Valuation 1.63%	(8,757) curr + 150bp Assumption 2.13%	(5,987) prior val assumption 1.64%	(4,925 prior fyr en assumptior
Y 04 05 06 07	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ	(5,919) curr + 100bp e to Valuation	(8,757) curr + 150bp Assumption	(5,987) prior val assumption	(4,925 prior fyr en assumptior
Y 04 05 06 07 08	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13%	(5,919) curr + 100bp e to Valuation 1.63%	(8,757) curr + 150bp Assumption 2.13%	(5,987) prior val assumption 1.64%	(4,925 prior fyr en assumptior 1.46%
Y 04 05 06 07 08 09	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13%	(5,919) curr + 100bp e to Valuation 1.63%	(8,757) curr + 150bp Assumption 2.13%	(5,987) prior val assumption 1.64% (1.2%)	(4,925 prior fyr en assumptior 1.46% (1.2% (1.5%
Y 04 05 06 07 08 09 10	2,515 curr - 100 bp	2,426 curr - 50 bp	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13%	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (1.8%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (2.6%)	(5,987) prior val assumption 1.64% (1.2%) (1.8%)	(4,925 prior fyr en- assumptior 1.46%
Y 04 05 06 07 08 09 10 11	2,515 curr - 100 bp 0.00%	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.8%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13%	(5,919) curr + 100bp e to Valuation 1.63%	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (2.6%) (3.2%)	(5,987) prior val assumption 1.64%	(4,925) prior fyr en assumption 1.46%
Y 04 05 06 07 08 09 10 11 12	2,515 curr - 100 bp 0.00% 0.4% 0.7% 0.8% 0.9% 0.9%	2,426 curr - 50 bp 0.13% 	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13%	(5,919) curr + 100bp e to Valuation 1.63%	(8,757) curr + 150bp Assumption 2.13%	(5,987) prior val assumption 1.64%	(4,925) prior fyr en assumption 1.46%
Y 04 05 06 07 08 09 10 11 12 13	2,515 curr - 100 bp	2,426 curr - 50 bp 0.13%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (3.2%)	(5,987) prior val assumption 1.64% (1.2%) (1.7%) (1.8%) (2.2%) (2.1%)	(4,925 prior fyr en- assumptior 1.46%
y 04 05 06 07 08 09 10 11 12 13 14	2,515 curr - 100 bp	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.1%) (1.4%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%) (2.2%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (4.1%)	(5,987) prior val assumption 1.64% (1.2%) (1.8%) (2.2%) (2.1%) (2.2%) (2.2%) (2.8%)	(4,925 prior fyr en- assumptior 1.46% (1.2% (1.5% (1.8% (1.8% (1.8% (2.3%
Y 04 05 06 07 08 09 10 11 12 13 14 15	2,515 curr - 100 bp	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.9% 1.1% 1.3%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.1%) (1.4%) (1.6%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%) (2.2%) (3.2%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (2.6%) (3.2%) (3.2%) (4.1%) (4.7%)	(5,987) prior val assumption 1.64% (1.2%) (1.7%) (1.8%) (2.2%) (2.1%) (2.2%) (2.8%) (3.2%)	(4,925 prior fyr en assumption 1.46% (1.2% (1.5% (1.5% (1.8% (2.3% (2.6%
Y 004 005 006 007 008 009 110 111 112 113 114 115 116	2,515 curr - 100 bp	2,426 curr - 50 bp 0.13%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.4%) (1.6%) (1.3%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%) (2.2%) (3.2%) (2.6%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (4.1%) (4.7%) (3.9%)	(5,987) prior val assumption 1.64%	(4,925) prior fyr en assumption 1.46% (1.2% (1.5% (1.5% (1.8% (1.8% (2.3% (2.6% (2.2%)
Y 004 005 006 007 008 009 009 1111 1112 1113 1114 1115 1116 1117	2,515 curr - 100 bp 0.00% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.1% 1.1%	2,426 curr - 50 bp 0.13%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.1%) (1.6%) (1.3%)	(5,919) curr + 100bp e to Valuation 1.63%	(8,757) curr + 150bp Assumption 2.13%	(5,987) prior val assumption 1.64%	(4,925) prior fyr en assumption 1.46% (1.2% (1.5% (1.8% (1.8% (1.8% (2.3% (2.6% (2.2% (2.1%)
Y 1004 1005 1006 1007 1009 1010 1011 1012 1015 1016 1017 1018 1017 1018	2,515 curr - 100 bp 0.00% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.1% 1.1%	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.3% 1.1% 1.0% 1.0%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.3%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%) (2.2%) (2.2%) (2.5%) (2.5%) (2.5%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (4.1%) (4.7%) (3.9%) (3.7%) (3.7%)	(5,987) prior val assumption 1.64% (1.2%) (1.7%) (2.2%) (2.1%) (2.2%) (2.2%) (2.2%) (2.5%) (2.5%) (2.5%)	(4,925) prior fyr en assumption 1.46% (1.2% (1.5% (1.5% (1.8% (1.8% (2.3% (2.6% (2.2% (2.1% (2.1% (2.1%
Y 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019	2,515 curr - 100 bp 0.00% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.1% 1.1% 1.1%	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.3% 1.1% 1.0% 1.0% 1.1%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.3%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%) (3.2%) (2.6%) (2.5%) (2.5%) (2.6%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (4.1%) (4.7%) (3.9%) (3.9%) (3.9%)	(5,987) prior val assumption 1.64% (1.2%) (1.8%) (2.2%) (2.1%) (2.28) (3.2%) (2.6%) (2.5%) (2.5%) (2.5%)	(4,925 prior fyr en assumption 1.46% (1.2% (1.5% (1.8% (2.3% (2.2% (2.1% (2.2% (2.1% (2.2%
Y 04 05 06 07 08 09 110 111 112 113 114 115 116 117 118 119 220	2,515 curr - 100 bp 0.00% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.1% 1.1% 1.1% 1.1%	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.9% 1.1% 1.3% 1.1% 1.0% 1.1% 1.1%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.4%) (1.6%) (1.3%) (1.3%) (1.3%) (1.3%) (1.3%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (1.8%) (2.1%) (2.1%) (2.2%) (2.2%) (2.5%) (2.5%) (2.5%) (2.5%) (2.6%) (2.6%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (4.1%) (3.9%) (3.9%) (3.9%) (3.9%) (3.9%) (3.9%)	(5,987) prior val assumption 1.64% (1.2%) (1.7%) (2.2%) (2.1%) (2.2%) (2.2%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.6%)	(4,925 prior fyr en assumption 1.46% (1.2% (1.5% (1.8% (2.3% (2.2% (2.1% (2.2%
Y V 04 05 06 07 08 09 11 12 13 14 15 16 17 18	2,515 curr - 100 bp 0.00% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.1% 1.1% 1.1%	2,426 curr - 50 bp 0.13% 0.4% 0.7% 0.8% 0.9% 0.9% 1.1% 1.3% 1.1% 1.0% 1.0% 1.1%	curr val assumption Percentage I	(2,995) curr + 50bp mpact Relativ 1.13% (0.8%) (0.9%) (1.1%) (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.3%)	(5,919) curr + 100bp e to Valuation 1.63% (1.2%) (1.7%) (2.1%) (2.1%) (2.2%) (3.2%) (2.6%) (2.5%) (2.5%) (2.6%)	(8,757) curr + 150bp Assumption 2.13% (2.0%) (2.6%) (3.2%) (3.2%) (4.1%) (4.7%) (3.9%) (3.9%) (3.9%)	(5,987) prior val assumption 1.64% (1.2%) (1.8%) (2.2%) (2.1%) (2.28) (3.2%) (2.6%) (2.5%) (2.5%) (2.5%)	(4,929 prior fyr end



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Components of Member Statement IBNR (i.e. "Discounted") Change During Month

RSP Alberta Non-Grid
AccountCode Desc IBNR - Discounted M/S IBNR - in \$000s

	Values						
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2004	42	(1)	1	-	-	-	42
2005	13	-	-	-	-	-	13
2006	1	-	-	-	-	-	1
2007	17	(1)	2	-	1	5.9%	18
2008	67	(1)	2	-	1	1.5%	68
2009	50	(2)	10	-	8	16.0%	58
2010	72	(2)	48	-	46	63.9%	118
2011	(328)	4	(4)	-	-	-	(328)
2012	201	(6)	(13)	-	(19)	(9.5%)	182
2013	449	(11)	(20)	-	(31)	(6.9%)	418
2014	1,213	(27)	21	-	(6)	(0.5%)	1,207
2015	2,378	(54)	27	-	(27)	(1.1%)	2,351
2016	3,720	(197)	210	-	13	0.3%	3,733
2017	8,343	(432)	(91)	-	(523)	(6.3%)	7,820
2018	12,837	(291)	(251)	-	(542)	(4.2%)	12,295
2019	31,533	(363)	(9)	-	(372)	(1.2%)	31,161
2020	23,142	3,222	(6,865)	-	(3,643)	(15.7%)	19,499
Grand Total	83,750	1,838	(6,932)	-	(5,094)	(6.1%)	78,656



EXHIBIT G

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Components of IBNR (i.e. "Undiscounted") Change During Month

RSP Alberta Non-Grid
AccountCode Desc IBNR - Undiscounted IBNR - in \$000s

	Values						
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2004	36	(1)	1	-	-	-	36
2005	5	-	-	-	-	-	5
2006	1	-	-	-	-	-	1
2007	(11)	-	1	-	1	(9.1%)	(10)
2008	64	(1)	2	-	1	1.6%	65
2009	(28)	1	6	-	7	(25.0%)	(21)
2010	(27)	1	45	-	46	(170.4%)	19
2011	(550)	11	(11)	-	-	-	(550)
2012	(93)	2	(20)	-	(18)	19.4%	(111)
2013	187	(4)	(27)	-	(31)	(16.6%)	156
2014	862	(17)	11	-	(6)	(0.7%)	856
2015	1,724	(34)	15	-	(19)	(1.1%)	1,705
2016	2,103	(158)	192	-	34	1.6%	2,137
2017	5,211	(334)	(140)	-	(474)	(9.1%)	4,737
2018	8,645	(190)	(240)	-	(430)	(5.0%)	8,215
2019	25,598	(256)	(17)	-	(273)	(1.1%)	25,325
2020	18,741	3,284	(6,591)	-	(3,307)	(17.6%)	15,434
Grand Total	62,468	2,304	(6,773)	-	(4,469)	(7.2%)	57,999